BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

1ST AND FINAL BILL

Name of work:	Construction of Garadi Mane at Nisarga Ground Yelahanka 4th Phase in Someshwara Ward No. 03 of Yelahanka Satellite Town Sub Division.
Estimated Cost :	Rs. 30.00 Lakhs
Head of Account :	P-3726
Name of Agency:	Sri K. Shankar Reddy, # 3, 1st Cross, 1st Main Road, Ramachandrappa Layout, Arabic College Post, Veeranna Palya, Bangalore - 45.
Work order No:	BBMP/EE/YNK.D/E-PMT-12/W.O/67/2022-23 D: 11-01-2023.

Measurement Recorded on :

Sl. No.	Description of Item	No.	L	B	D	Qty.	Rate / Unit	Amount
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 01 is =					213.95	203.00	43432.00
2	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 02 is =					9.00	2619.00	23571.00
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation.The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150mm thickness, well compacted using plate vibrators,including all lead & lifts, cost of all materials of quality, labour, Usages charges of machineries, curing and all the other appurtenances required to complete the work as per technical specifications.(The cost of steel reinforcement & form work shall be paid separately) Mix 1:3:6 (M10)Using 40mm nominal size graded crushed coarse aggregates.							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 03 is =					19.72	5681.00	112029.00
5	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 04 is =					14.28	5475.00	78183.00
6	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m							
	Filling Availabe of Excavated Earth							

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Sl. No.	Description of Item	No.	L	B	D	Qty.	Rate / Unit	Amount
	Earthwork Excavation	Qty Vide Item No. 01				213.95		
	PCC for Footing	Qty Vide Item No. 3 & 4				-19.72		
	Filling in Foundation with Granite / broken metal	Qty Vide Item No. 2				-9.00		
	SSM Footing	Qty Vide Item No. 5				-14.28		
	Footing Concrete Qty	Qty Vide Item No. 9				-58.50		
	Total Qty					112.44		
	Qty upto 125%					89.28	208.00	18569.00
	Qty above 125%					23.17	208.47	4829.00
7	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3)							
	Earthwork Excavation					213.95		
	Filling Available Earth					-112.44		
	Total					101.51	75.00	7613.00
8	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km							
	Qty Vide Item No. 07		101.51	1.28		129.93		
						129.93	98.00	12733.00
9	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregate							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 05 is =					64.49	6620.00	426924.00
10	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregate							
	Ground Floor							
	Columns upto Beam Bottom	10	0.23	0.45	3.00	3.11		
11	**Roof Slab**					3.11	6961.00	21614.00
	Front Extension	1	19.30	7.60	0.15	22.00		
	Slab above Toilet	1	4.00	0.90	0.15	0.54		
		1	3.20	1.60	0.15	0.77		
12	**Beams**					23.31	7593.00	176993.00
	Along Long Direction	2	19.30	0.23	0.30	2.66		

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Sl. No.	Description of Item	No.	L	B	D	Qty.	Rate / Unit	Amount
	Along Short Direction	5	7.30	0.23	0.30	2.52		
		1	5.50	0.30	0.15	0.25		
	inside Walls	1	3.20	0.15	0.15	0.07		
						5.50	7593.00	41772.00
13	**Lintel**							
	Along Long Direction	2	19.30	0.15	0.15	0.87		
	Along Short Direction	4	7.30	0.15	0.15	0.66		
	inside Walls	3	3.20	0.15	0.15	0.22		
		1	1.50	0.15	0.15	0.03		
						1.78	7593.00	13479.00
14	**Chejjas**							
	Inside							
	Enterance Room	1	5.30	0.45	0.075	0.18		
		1	3.75	0.45	0.075	0.13		
	Inside Hall	2	4.90	0.45	0.075	0.33		
	Outside Chejjas							
		1	2.40	0.45	0.075	0.08		
		1	2.10	0.45	0.075	0.07		
		1	1.80	0.45	0.075	0.06		
		1	2.10	0.45	0.075	0.07		
		1	2.10	0.45	0.075	0.07		
	Total Qty					0.99		
	Qty upto 125%					0.36	9176.00	3326.00
	Qty above 125%					0.63	9166.14	5757.00

Assistant Engineer
Ward No. 03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
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K. Sankara Reddy

Sl.	Description of Item	No.	L	B	D	Qty.	Rate / Unit	Amount
	Measurement Recorded on :							
15	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 06 to 07 is =					10055.91	98.00	985479.00
18	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications							
	Ground Floor:-							
	Long Walls	2	19.30		2.85	110.01		
	Short Walls	4	7.30		2.85	83.22		
		2	3.20		2.10	13.44		
		1	3.20		2.85	9.12		
	Toilet Wall	1	1.50		2.10	3.15		
						218.94		
	(-)Deductions:-D	1	1.25		2.10	2.63		
	D1	3	1.10		2.10	6.93		
	D2	1	0.90		2.10	1.89		
	D3	2	0.80		2.10	3.36		
	Windows	3	1.80		1.00	5.40		
		3	1.80		0.80	4.32		
		2	1.50		0.70	2.10		
	V	2	0.90		0.70	1.26		
		2	0.60		0.45	0.54		
	Columns	4	0.45		3.00	5.40		
		2	0.23		3.00	4.14		
						-37.97		
	Total Qty					180.98		
	Parapet Wall							
		2	19.30		0.90	34.74		
		2	7.30		0.90	13.14		
	Total Qty					228.86		
	Qty upto 125%					37.88	1091.00	41322.00
	Qty above 125%					190.98	1084.24	207068.00

Assistant Engineer
Ward No. 03

K. Sankar Reddy

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Assistant Executive Engineer
Yelahanka Satellite Town Sub-Division

Sl. No	Description of Item	No.	L	B	D	Qty.	Rate / Unit	Amount
	Measurement Recorded on :							
19	Providing and laying Cement concrete flooring 40 mm thick with 20 mm nominal size stone aggregate using 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry complete							
	Qty as per Premeasurement Recorded vide E-Bill Page No. 08 is =					134.96	409.00	55186.00
20	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates							
	Ground Floor:-							
	Enterance Room	1	7.30	5.50	0.10	4.02		
	Enterance Portion	1	3.20	1.50	0.10	0.48		
	Small Room	1	3.20	2.10	0.10	0.67		
	Toilets	1	3.20	1.60	0.10	0.51		
	Big Hall	2	1.60	1.50	0.10	0.48		
		1	10.05	7.30	0.10	7.34		
						601.80	409.00	246162.00
						SUB AMOUNT RS.		2361067.00
						AD GST @ 18%		424992.00
						TOTAL AMOUNT RS.		2786059.00

Assistant Engineer
Ward No. 03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
B.B.M.P. Bengaluru-106

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K. Sankar Reddy